

chain nodes :

7 15 21 22 23 26 27 28

ring nodes :

1 2 3 4 5 6 8 9 10 11 12 13 16 17 18 19 20

chain bonds :

2-26 5-7 7-22 7-23 12-15 15-17 20-21 26-27 26-28

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 8-9 8-13 9-10 10-11 11-12 12-13 16-17
16-20 17-18 18-19 19-20

exact/norm bonds :

1-2 1-6 2-3 2-26 3-4 4-5 5-6 5-7 7-22 7-23 12-15 15-17 16-17
16-20 17-18 18-19 19-20 26-27 26-28

exact bonds :

20-21

normalized bonds :

8-9 8-13 9-10 10-11 11-12 12-13

isolated ring systems :

containing 1 : 8 :

G1:H,CH3

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:Atom 9:Atom
10:Atom 11:Atom 12:Atom 13:Atom 14:CLASS 15:CLASS 16:Atom 17:Atom
18:Atom 19:Atom 20:Atom 21:CLASS 22:CLASS 23:CLASS 26:CLASS
27:CLASS 28:CLASS

STN Columbus

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command can only be used to look at the index in a file which has an
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=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.31	2.31

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NEWS 6 AUG 02 The Analysis Edition of STN Express with Discover!
(Version 7.01 for Windows) now available
NEWS 7 AUG 27 BIOCOMMERCE: Changes and enhancements to content coverage
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STN Express with Discover!
NEWS 11 SEP 01 New display format, HITSTR, available in WPIDS/WPINDEX/WPIX
NEWS 12 SEP 27 STANDARDS will no longer be available on STN
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NEWS 14 OCT 28 KOREAPAT now available on STN

NEWS EXPRESS OCTOBER 29 CURRENT WINDOWS VERSION IS V7.01A, CURRENT
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 11 AUGUST 2004
NEWS HOURS STN Operating Hours Plus Help Desk Availability
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NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that
specific topic.

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commands which can be used in this file.

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.31	2.31

FILE 'REGISTRY' ENTERED AT 18:22:38 ON 03 NOV 2004

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

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Property values tagged with IC are from the ZIC/VINITI data file
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STRUCTURE FILE UPDATES: 1 NOV 2004 HIGHEST RN 773835-43-1
DICTIONARY FILE UPDATES: 1 NOV 2004 HIGHEST RN 773835-43-1

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> index REGISTRY

AT LEAST TWO FILES ARE NEEDED FOR STNINDEX
SESSION CONTINUES IN THE PREVIOUS FILE ENVIRONMENT
To see a list of files and clusters that may be used in the INDEX
command, enter HELP FILE NAMES or HELP CLUSTER NAMES at an arrow
prompt. Only the learning files and NBSFLUIDS may not be used in
STNINDEX.

=>

L1 STRUCTURE UPLOADED

=> s l1

SAMPLE SEARCH INITIATED 18:23:09 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 4 TO ITERATE

100.0% PROCESSED 4 ITERATIONS 1 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 4 TO 200
PROJECTED ANSWERS: 1 TO 80

L2 1 SEA SSS SAM L1

=> s l1 sss full

FULL SEARCH INITIATED 18:23:23 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 97 TO ITERATE

100.0% PROCESSED 97 ITERATIONS 20 ANSWERS
SEARCH TIME: 00.00.01

L3 20 SEA SSS FUL L1

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	155.42	157.73

FILE 'CAPLUS' ENTERED AT 18:23:29 ON 03 NOV 2004

STN Columbus

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FILE COVERS 1907 - 3 Nov 2004 VOL 141 ISS 19
FILE LAST UPDATED: 2 Nov 2004 (20041102/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 13

L4 6 L3

=> s 13/p

L5 6 L3/P

=> d 15 1-6 bib abs hitstr

L5 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN

Full Text

AN 2004:100813 CAPLUS

DN 140:151963

TI Salt forms with tyrosine kinase activity

IN Ren, Yu; Karki, Shyam B.; Zhao, Matthew M.; Bidodeau, Mark T.

PA USA

SO U.S. Pat. Appl. Publ., 37 pp.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2004023981	A1	20040205	US 2003-607114	20030626
PRAI	US 2002-398263P	P	20020724		

AB The present invention relates to salt forms of 4-[2-(5-cyanothiazol-2-ylamino)pyridin-4-ylmethyl]piperazine-1-carboxylic acid methylamide (I) which inhibit, regulate and/or modulate tyrosine kinase signal transduction, and compns. which contain these compds. Methods of using them to treat tyrosine kinase-dependent diseases and conditions, such as angiogenesis, cancer, tumor growth, atherosclerosis, age-related macular degeneration, diabetic retinopathy, retinal ischemia, macular edema, and inflammatory diseases in mammals. Thus, I was prepd. by the reaction of a piperazine urea with formylpyridine-contg. aminothiazole deriv. followed by redn. The crystal structures of salts of I were studied.

IT 479611-82-0P 652156-19-9P 652156-20-2P

652156-21-3P 652156-22-4P 652156-23-5P

652156-24-6P 652156-25-7P 652156-26-8P

RL: PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use);

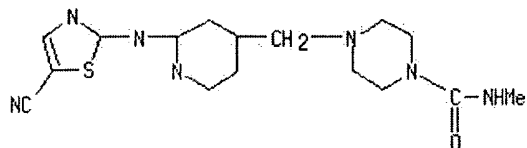
BIOL (Biological study); PREP (Preparation); USES (Uses)

(salt forms with tyrosine kinase activity)

STN Columbus

RN 479611-82-0 CAPLUS

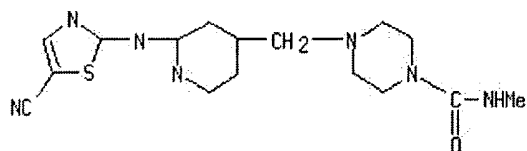
CN 1-Piperazinecarboxamide, 4-[[2-[(5-cyano-2-thiazolyl)amino]-4-pyridinyl]methyl]-N-methyl- (9CI) (CA INDEX NAME)



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

RN 652156-19-9 CAPLUS

CN 1-Piperazinecarboxamide, 4-[[2-[(5-cyano-2-thiazolyl)amino]-4-pyridinyl]methyl]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

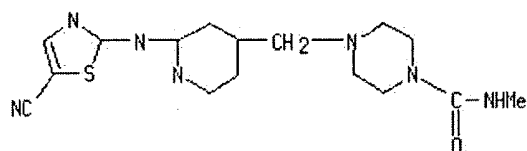


HCl

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

RN 652156-20-2 CAPLUS

CN 1-Piperazinecarboxamide, 4-[[2-[(5-cyano-2-thiazolyl)amino]-4-pyridinyl]methyl]-N-methyl-, monohydrochloride, monohydrate (9CI) (CA INDEX NAME)



HCl

H2O

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

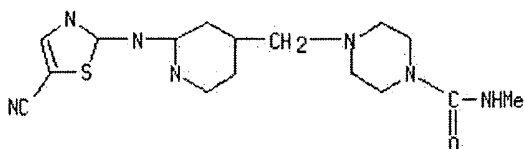
RN 652156-21-3 CAPLUS

CN 1-Piperazinecarboxamide, 4-[[2-[(5-cyano-2-thiazolyl)amino]-4-pyridinyl]methyl]-N-methyl-, monohydrochloride, compd. with ethanol (1:1) (9CI) (CA INDEX NAME)

CM 1

STN Columbus

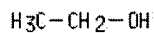
CRN 479611-82-0
CMF C16 H19 N7 O S



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

CM 2

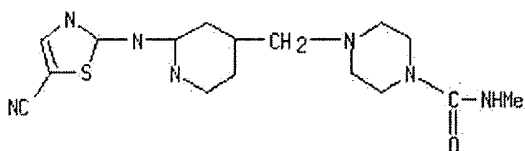
CRN 64-17-5
CMF C2 H6 O



RN 652156-22-4 CAPLUS
CN 1-Piperazinecarboxamide, 4-[[2-[(5-cyano-2-thiazolyl)amino]-4-pyridinyl]methyl]-N-methyl-, (2R,3R)-2,3-dihydroxybutanedioate (1:1) (9CI)
(CA INDEX NAME)

CM 1

CRN 479611-82-0
CMF C16 H19 N7 O S

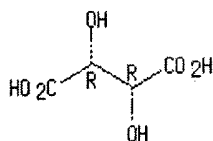


ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

CM 2

CRN 87-69-4
CMF C4 H6 O6

Absolute stereochemistry.



RN 652156-23-5 CAPLUS

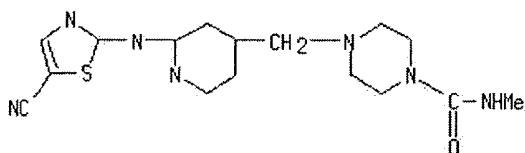
STN Columbus

CN 1-Piperazinecarboxamide, 4-[[2-[(5-cyano-2-thiazolyl)amino]-4-pyridinyl]methyl]-N-methyl-, (2R,3R)-2,3-dihydroxybutanedioate (1:1), dihydrate (9CI) (CA INDEX NAME)

CM 1

CRN 479611-82-0

CMF C16 H19 N7 O S



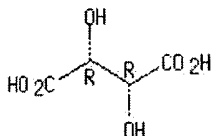
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

CM 2

CRN 87-69-4

CMF C4 H6 O6

Absolute stereochemistry.



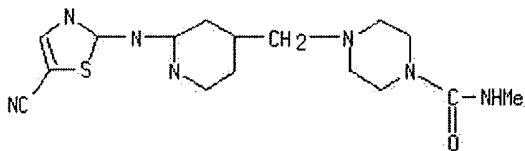
RN 652156-24-6 CAPLUS

CN 1-Piperazinecarboxamide, 4-[[2-[(5-cyano-2-thiazolyl)amino]-4-pyridinyl]methyl]-N-methyl-, 2-hydroxy-1,2,3-propanetricarboxylate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 479611-82-0

CMF C16 H19 N7 O S



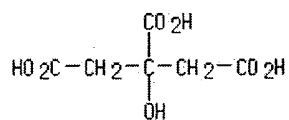
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

CM 2

CRN 77-92-9

CMF C6 H8 O7

STN Columbus



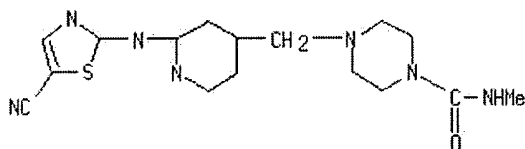
RN 652156-25-7 CAPLUS

CN 1-Piperazinecarboxamide, 4-[[2-[(5-cyano-2-thiazolyl)amino]-4-pyridinyl)methyl]-N-methyl-, 2-hydroxy-1,2,3-propanetricarboxylate (1:1), monohydrate (9CI) (CA INDEX NAME)

CM 1

CRN 479611-82-0

CMF C16 H19 N7 O S

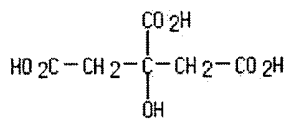


ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

CM 2

CRN 77-92-9

CMF C6 H8 O7



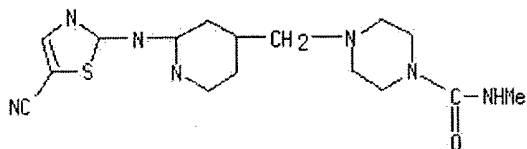
RN 652156-26-8 CAPLUS

CN 1-Piperazinecarboxamide, 4-[[2-[(5-cyano-2-thiazolyl)amino]-4-pyridinyl)methyl]-N-methyl-, monobenzenesulfonate (9CI) (CA INDEX NAME)

CM 1

CRN 479611-82-0

CMF C16 H19 N7 O S



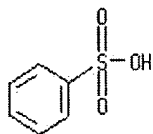
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

STN Columbus

CM 2

CRN 98-11-3

CMF C6 H6 O3 S



L5 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN

Full Text

AN 2004:100812 CAPLUS

DN 140:151962

TI Polymorphs with tyrosine kinase activity

IN Zhao, Matthew M.; Bilodeau, Mark T.

PA USA

SO U.S. Pat. Appl. Publ., 22 pp.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2004023980	A1	20040205	US 2003-607091	20030626
PRAI	US 2002-398238P	P	20020724		

AB The present invention relates to active polymorphs of 4-[2-(5-cyanothiazol-2-ylamino)pyridin-4-ylmethyl]piperazine-1-carboxylic acid methylamide (I) which inhibit, regulate and/or modulate tyrosine kinase signal transduction, and compns. which contain these compds. Methods of using them to treat tyrosine kinase-dependent diseases and conditions, such as angiogenesis, cancer, tumor growth, atherosclerosis, age-related macular degeneration, diabetic retinopathy, retinal ischemia, macular edema, and inflammatory diseases in mammal are also disclosed. Thus, I was prepd. by the reaction of BOC-piperazine with Me isocyanate followed by deprotection and reaction with 2-(4-chloromethylpyridin-2-ylamino)th-5-carbonitrile. The crystal structure of a I polymorph was studied.

IT 479611-82-0P, 4-[2-(5-Cyanothiazol-2-ylamino)pyridin-4-ylmethyl]piperazine-1-carboxylic acid methylamide

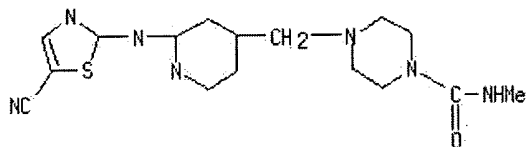
RL: PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use);

BIOL (Biological study); PREP (Preparation); USES (Uses)

(polymorphs with tyrosine kinase activity)

RN 479611-82-0 CAPLUS

CN 1-Piperazinecarboxamide, 4-[[2-[(5-cyano-2-thiazolyl)amino]-4-pyridinyl]methyl]-N-methyl- (9CI) (CA INDEX NAME)



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

STN Columbus

L5 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN

Full Text

AN 2004:100811 CAPLUS

DN 140:146127

TI Process for making substituted thiazolyl-amino pyridines

IN Zhao, Matthew M.; Yin, Jingjun

PA USA

SO U.S. Pat. Appl. Publ., 18 pp.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 1

APP^S

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	US 2004023979	A1	20040205	US 2003-607056	20030626
PRAI	US 2002-395837P	P	20020715		
OS	CASREACT 140:146127; MARPAT 140:146127				
GI					

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The present invention relates to a process for prepg. substituted thiazolyl-amino pyridines (I) [R = H, each (un)substituted C1-10 alkyl or aryl; R1 = CONHR3; R2 = H, OH, C1-6 alkoxy, C1-6 alkyl, halo; R3 = C1-6 alkyl] which are capable of inhibiting, modulating and/or regulating signal transduction of both receptor-type and non-receptor type tyrosine kinases and may be used to treat tyrosine kinase-dependent diseases and conditions, such as angiogenesis, cancer, tumor growth, atherosclerosis, age related macular degeneration, diabetic retinopathy, or inflammatory diseases in mammals. The above process comprises (a) prepg. a slurry of 2-aminothiazole-5-carbonitrile (II) (where R is defined above), 2-halopyridine-4-carbaldehyde (III) (where X = a halo; R2 is defined above) and a base in a solvent, (b) adding a palladium catalyst and a bisphosphine ligand to the slurry to produce a coupling product of 2-[(4-formyl-2-pyridyl)amino]thiazole-5-nitrile (IV), (c) adding a piperazine-urea of formula (V) (R3 is defined above) to the coupling product of formula IV; and (d) completing a reductive amination to produce the compd. of formula I. Thus, in a 2-3 kg scale reaction, 2-chloro-4-formylpyridine was coupled with 2-aminothiazole in the presence of Pd(dba)₃, 9,9-dimethyl-4,5-bis(diphenylphosphino)xanthene, and K₃PO₄ in toluene-water at 90° for 8 h to give 97% 2-[(4-formyl-2-pyridyl)amino]thiazole-5-nitrile which underwent reductive coupling with N-(methylaminocarbonyl)piperazine hydrochloride using NaBH(OAc)₂ in the presence of Et₃N and AcOH in N,N-dimethylacetamide for a total of 260 min to give 80.4% the title compd. (VI). The compds. I inhibited VEGF-stimulated mitogenesis of human vascular endothelial cells in culture with IC₅₀ values between 0.01-5.0 μM.

IT 479611-82-0P

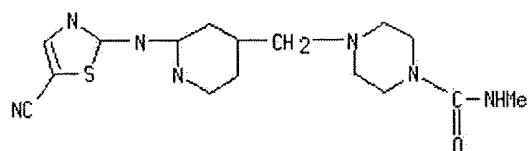
RL: IMF (Industrial manufacture); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of thiazolylaminopyridines by amination of aminothiazolecarbonitrile deriv. with halopyridinecarbaldehyde deriv. to [(formylpyridyl)amino]thiazolenitrile deriv. and reductive coupling with N-(aminocarbonyl)piperazine deriv.)

RN 479611-82-0 CAPLUS

CN 1-Piperazinecarboxamide, 4-[[2-[(5-cyano-2-thiazolyl)amino]-4-pyridinyl]methyl]-N-methyl- (9CI) (CA INDEX NAME)

STN Columbus



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L5 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN

Full Text

AN 2004:100810 CAPLUS

DN 140:151961

TI Active salt forms with tyrosine kinase activity

IN Ren, Yu; Karki, Shyam B.; Zhao, Matthew M.; Bilodeau, Mark T.

PA USA

SO U.S. Pat. Appl. Publ., 23 pp.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2004023978	A1	20040205	US 2003-607031	20030626
PRAI	US 2002-398236P	P	20020724		

AB The present invention relates to orally active salt forms of the mesylate salt of 4-[2-(5-cyanothiazol-2-ylamino)pyridin-4-ylmethyl]piperazine-1-carboxylic acid methylamide (I) which inhibit, regulate and/or modulate tyrosine kinase signal transduction and compns. which contain these compds. Methods of using them to treat tyrosine kinase-dependent diseases and conditions, such as angiogenesis, cancer, tumor growth, atherosclerosis, age related macular degeneration, diabetic retinopathy, retinal ischemia, macular edema, and inflammatory diseases in mammals are also disclosed. Thus, I was prepd. by the reaction of a piperazine urea with formylpyridine-contg. aminothiazole deriv. followed by redn. The crystal structures of salts of I were studied.

IT 479611-82-0P 652154-18-2P 652154-19-3P

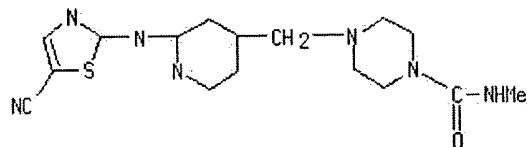
RL: PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use);

BIOL (Biological study); PREP (Preparation); USES (Uses)

(active salt forms with tyrosine kinase activity)

RN 479611-82-0 CAPLUS

CN 1-Piperazinecarboxamide, 4-[[2-[(5-cyano-2-thiazolyl)amino]-4-pyridinyl]methyl]-N-methyl- (9CI) (CA INDEX NAME)



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

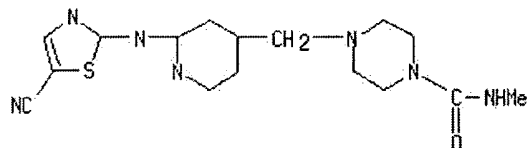
RN 652154-18-2 CAPLUS

CN 1-Piperazinecarboxamide, 4-[[2-[(5-cyano-2-thiazolyl)amino]-4-pyridinyl]methyl]-N-methyl-, monomethanesulfonate (9CI) (CA INDEX NAME)

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STN Columbus

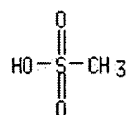
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CMF C16 H19 N7 O S



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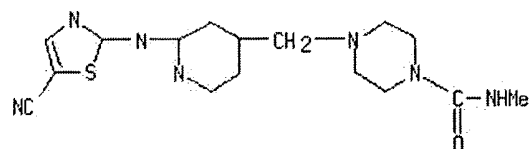
CRN 75-75-2
CMF C H4 O3 S



RN 652154-19-3 CAPLUS
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CM 1

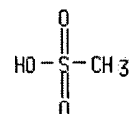
CRN 479611-82-0
CMF C16 H19 N7 O S



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

CM 2

CRN 75-75-2
CMF C H4 O3 S



STN Columbus

L5 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN

Full Text

AN 2003:5956 CAPLUS

DN 138:73254

TI Preparation of thiazolylaminopyridines as tyrosine kinase inhibitors with therapeutic uses

IN Bilodeau, Mark T.; Hartman, George D.

PA Merck Co., Inc., USA

SO PCT Int. Appl., 93 pp.

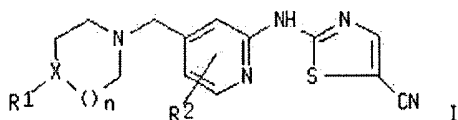
CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003000687	A1	20030103	WO 2002-US21110	20020618
	W:			AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM	
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	EP 1404672	A1	20040407	EP 2002-744810	20020618
	R:			AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR	
	US 2003100567	A1	20030529	US 2002-174774	20020619
PRAI	US 2001-300245P	P	20010622		
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OS	MARPAT 138:73254				
GI					

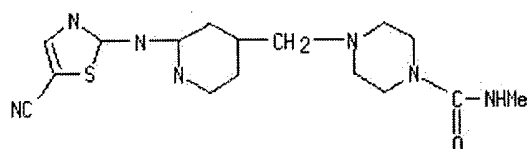


AB The present invention relates to thiazolylaminopyridines (shown as I; variables defined below; e.g. 4-[2-(5-cyanothiazol-2-ylamino)pyridin-4-ylmethyl]piperazine-1-carboxylic acid methylamide) which inhibit, regulate and/or modulate tyrosine kinase signal transduction, compns. which contain these compds., and methods of using them to treat tyrosine kinase-dependent diseases and conditions, such as angiogenesis, cancer, tumor growth, atherosclerosis, age related macular degeneration, diabetic retinopathy, inflammatory diseases, and the like in mammals. For I: n is 0 or 1; X is C-H or N, provided X is C-H if n = 1 and R1 is SO2-(C1-C6 alkyl) and provided that X is C-H if R1 is NH(C:O)NR3H; R1 is SO2(C1-C6 alkyl), (C:O)NR3H, or NH(C:O)NR3H; R2 is H, OH, OC1-C6 alkyl, C1-C6 alkyl, or halo; and R3 is C1-C6 alkyl. Compds. I inhibit VEGF-stimulated mitogenesis of human vascular endothelial cells in culture with IC50 values = 0.01-5.0 μ M. 4-[2-(5-Cyanothiazol-2-ylamino)pyridin-4-ylmethyl]piperazine-1-carboxylic acid methylamide, 2-[[4-[[4-(methylsulfonyl)piperidin-1-yl]methyl]pyridin-2-yl]amino]-1,3-thiazole-5-carbonitrile, and 4-[2-(5-cyanothiazol-2-ylamino)-3-methylpyridin-4-ylmethyl]piperazine-1-carboxylic acid methylamide show enhanced

STN Columbus

pharmacokinetic properties as compared to previously reported thiazolylaminopyridines in WO 01/17995 A1. Although the methods of prepn. are not claimed, 13 example preps. are included.

IT 479611-82-0P, 4-[[2-(5-Cyanothiazol-2-ylamino)pyridin-4-yl]methyl]piperazine-1-carboxylic acid methylamide 479612-56-1P,
4-[2-(5-Cyanothiazol-2-ylamino)-3-methylpyridin-4-ylmethyl]piperazine-1-carboxylic acid methylamide trifluoroacetate
RL: PAC (Pharmacological activity); PKT (Pharmacokinetics); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(drug candidate; prepn. of thiazolylaminopyridines as tyrosine kinase inhibitors with therapeutic uses)
RN 479611-82-0 CAPLUS
CN 1-Piperazinecarboxamide, 4-[[2-[(5-cyano-2-thiazolyl)amino]-4-pyridinyl]methyl]-N-methyl- (9CI) (CA INDEX NAME)



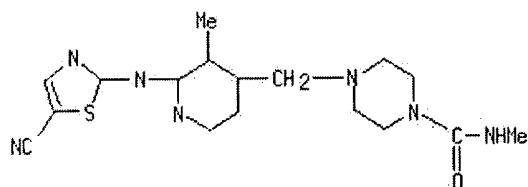
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

RN 479612-56-1 CAPLUS
CN 1-Piperazinecarboxamide, 4-[[2-[(5-cyano-2-thiazolyl)amino]-3-methyl-4-pyridinyl]methyl]-N-methyl-, trifluoroacetate (9CI) (CA INDEX NAME)

CM 1

CRN 479612-55-0

CMF C17 H21 N7 O S

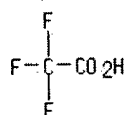


ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

CM 2

CRN 76-05-1

CMF C2 H F3 O2



IT 479612-28-7P, 4-[2-(5-Cyanothiazol-2-ylamino)-5-methylpyridin-4-

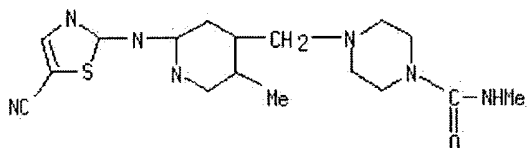
STN Columbus

ylmethyl]piperazine-1-carboxylic acid methylamide **479612-29-8P**,
 4-[[2-(5-Cyanothiazol-2-ylamino)-5-methylpyridin-4-yl]methyl]piperazine-1-
 carboxylic acid methylamide trifluoroacetate **479612-55-0P**,
 4-[2-(5-Cyanothiazol-2-ylamino)-3-methylpyridin-4-ylmethyl]piperazine-1-
 carboxylic acid methylamide **479612-74-3P**, 4-[[2-Chloro-6-[(5-
 cyano-1,3-thiazol-2-yl)amino]pyridin-4-yl]methyl]-N-methylpiperazine-1-
 carboxamide **479612-92-5P**, 4-[[2-[(5-Cyano-1,3-thiazol-2-
 yl)amino]-6-ethylpyridin-4-yl]methyl]-N-methylpiperazine-1-carboxamide
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
 (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
 (Uses)

(drug candidate; prepn. of thiazolylaminopyridines as tyrosine kinase
 inhibitors with therapeutic uses)

RN 479612-28-7 CAPLUS

CN 1-Piperazinecarboxamide, 4-[[2-[(5-cyano-2-thiazolyl)amino]-5-methyl-4-
 pyridinyl]methyl]-N-methyl- (9CI) (CA INDEX NAME)



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

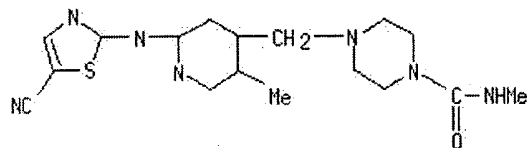
RN 479612-29-8 CAPLUS

CN 1-Piperazinecarboxamide, 4-[[2-[(5-cyano-2-thiazolyl)amino]-5-methyl-4-
 pyridinyl]methyl]-N-methyl-, trifluoroacetate (9CI) (CA INDEX NAME)

CM 1

CRN 479612-28-7

CMF C17 H21 N7 O S

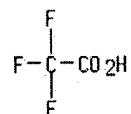


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CM 2

CRN 76-05-1

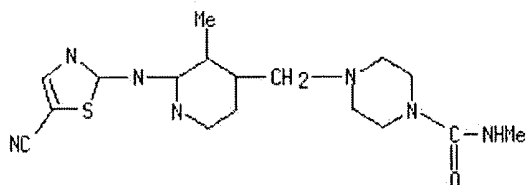
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RN 479612-55-0 CAPLUS

STN Columbus

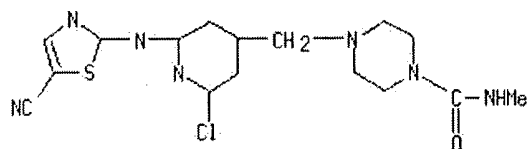
CN 1-Piperazinecarboxamide, 4-[[2-[(5-cyano-2-thiazolyl)amino]-3-methyl-4-pyridinyl)methyl]-N-methyl- (9CI) (CA INDEX NAME)



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

RN 479612-74-3 CAPLUS

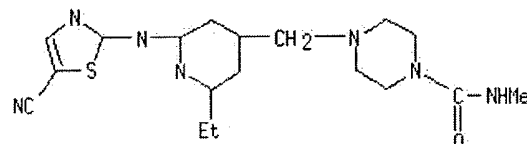
CN 1-Piperazinecarboxamide, 4-[[2-chloro-6-[(5-cyano-2-thiazolyl)amino]-4-pyridinyl)methyl]-N-methyl- (9CI) (CA INDEX NAME)



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

RN 479612-92-5 CAPLUS

CN 1-Piperazinecarboxamide, 4-[[2-[(5-cyano-2-thiazolyl)amino]-6-ethyl-4-pyridinyl)methyl]-N-methyl- (9CI) (CA INDEX NAME)



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN

Full Text

AN 2001:185751 CAPLUS

DN 134:222709

TI Preparation of N-(pyrid-2-yl)-2-thiazolamines as tyrosine kinase inhibitors

IN Bilodeau, Mark T.; Hungate, Randall W.; Rodman, Leonard; Hartman, George D.; Manley, Peter J.

PA Merck Co., Inc., USA

SO PCT Int. Appl., 177 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

PATENT NO.

KIND

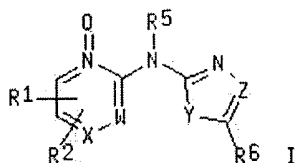
DATE

APPLICATION NO.

DATE

STN Columbus

PI WO 2001017995 A1 20010315 WO 2000-US24432 20000906
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EP 1218376 A1 20020703 EP 2000-961583 20000906
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JP 2003509342 T2 20030311 JP 2001-522218 20000906
BR 2000013899 A 20030708 BR 2000-13899 20000906
EE 200200123 A 20030815 EE 2002-123 20000906
US 2002147203 A1 20021010 US 2002-62351 20020201
US 6586424 B2 20030701
US 2003064996 A1 20030403 US 2002-61817 20020201
US 6586423 B2 20030701
BG 106465 A 20021229 BG 2002-106465 20020228
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NO 2002001166 A 20020425 NO 2002-1166 20020308
PRAI US 1999-153348P P 19990910
WO 2000-US24432 W 20000906
US 2000-658680 B1 20000908
OS MARPAT 134:222709
GI



AB The title compds. [I; XW = CC, NC, CN; Y = O, S, NR4; Z = N, CR4; Q = O, absent; R1, R2 = H, OH, CN, etc.; R5 = H, SO2Rc, CO2Rc, etc.; R6 = aryl, CN, cycloalkyl, etc.; Rc = alkyl, cycloalkyl, aryl, heterocyclyl] which inhibit, regulate and/or modulate tyrosine kinase signal transduction, and therefore are useful in treating tyrosine kinase-dependent diseases and conditions, such as angiogenesis, cancer, tumor growth, atherosclerosis, age related macular degeneration, diabetic retinopathy, inflammatory diseases, and the like in mammals, were prepd. Thus, refluxing 2-pyridylthiourea with (1-bromo-2,2-dimethoxyethyl)benzene in EtOH/HCl afforded the amine I [WX = CC; Y = S; Z = CH; Q = absent; R1, R2, R5 = H; R6 = Ph]. The compds. I inhibit VEGF-stimulated mitogenesis of human vascular endothelial cells in culture with IC50 of 0.01-5.0 μ M.

IT 329793-60-4P 329793-62-6P 329793-63-7P

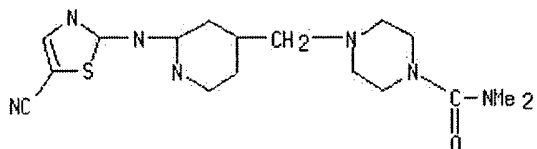
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of N-(pyrid-2-yl)-2-thiazolamines as tyrosine kinase inhibitors)

RN 329793-60-4 CAPIUS

CN 1-Piperazinecarboxamide, 4-[[2-[(5-cyano-2-thiazolyl)amino]-4-

STN Columbus

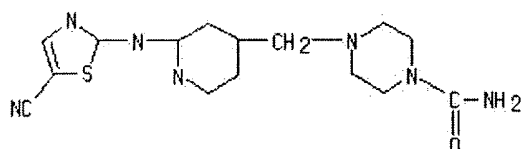
pyridinyl)methyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

RN 329793-62-6 CAPLUS

CN 1-Piperazinecarboxamide, 4-[[2-[(5-cyano-2-thiazolyl)amino]-4-pyridinyl)methyl]- (9CI) (CA INDEX NAME)



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

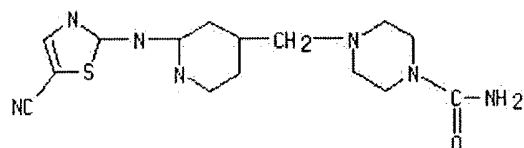
RN 329793-63-7 CAPLUS

CN 1-Piperazinecarboxamide, 4-[[2-[(5-cyano-2-thiazolyl)amino]-4-pyridinyl)methyl]-, trifluoroacetate (9CI) (CA INDEX NAME)

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CRN 329793-62-6

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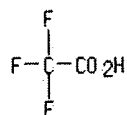


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CM 2

CRN 76-05-1

CMF C2 H F3 O2



RE.CNT 9

THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

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FILE COVERS 1907-1966
 FILE LAST UPDATED: 01 May 1997 (19970501/UP)

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This file supports REGISTRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

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